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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/961,065	09/24/2001	Norio Hama	110564	5210
25944 7	7590 05/18/2005		EXAM	INER
OLIFF & BERRIDGE, PLC			ENG, GEORGE	
P.O. BOX 199			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22320			ARTUNIT	FAFER NUMBER
			2643	

DATE MAILED: 05/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		UH			
	Application No.	Applicant(s)			
	09/961,065	HAMA, NORIO			
Office Action Summary	Examiner	Art Unit			
	George Eng	2643			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet v	vith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a eply within the statutory minimum of the dwill apply and will expire SIX (6) MO ute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>03</u>	Responsive to communication(s) filed on <u>03 March 2005</u> .				
2a)⊠ This action is FINAL . 2b)□ Th					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application	on.	•			
4a) Of the above claim(s) is/are withd	rawn from consideration.	·			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-12</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	l/or election requirement.	•			
Application Papers					
9)☐ The specification is objected to by the Exami	ner.	:			
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b) objected to	by the Examiner.			
Applicant may not request that any objection to the		• • •			
Replacement drawing sheet(s) including the corre					
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 	ents have been received.				
3. Copies of the certified copies of the pr					
application from the International Bure		3.			
* See the attached detailed Office action for a li	st of the certified copies no	t received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) 🗍 Interview	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>3/3 (0</u>5 	8) 5) \(\bigcap \) Notice of 6) \(\bigcap \) Other: \(\bigcap \)	Informal Patent Application (PTO-152)			
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U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 09/961,065

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DETAILED ACTION

Response to Amendment

1. This Office action is in response to the amendment filed 3/3/2005.

Information Disclosure Statement

2. The information disclosure statement filed 3/3/2005 has been considered.

Drawings

3. The drawings were received on 3/3/2005. These drawings are acceptable.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4, 7-8 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carlson (US PAT. 6,374,082) in view of Mansfield (US PAT. 6,704,346).

Regarding claim 1, Carlson discloses a wireless communication device (26, figure 2) driven by an internal power supply (abstract), comprising an RSSI signal extracting means for extracting a received signal an RSSI signal representing a level of the received signal (col. 3)

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lines 43-47), a disturbance wave periodicity detecting means (22, figure 3) for detecting a radiation periodicity of a disturbance wave signal included in said RSSI signal and distinguishing said radiation periodicity of said disturbance wave signal to data transmission/ reception with said another wireless communication device (col. 38-43), and communication means (12, figure 2) for performing data transmission/reception with said another wireless communication device (col. 3 lines 12-26). Carlson differs from the claimed invention in not specifically teaching the wireless communication device continuing the communication connection with another wireless communication device by a control signal, wherein the communication device comprises a communication continuing means for continuing the communication connection with said another wireless communication device by said control signal established into a present frequency band which is not substantially affected by said disturbance wave signal. However, Mansfield teaches a RF communication system having improved RF interference characteristic for use with at least a pair of RF transceiver comprising an algorithm for continuing a communication connection with another wireless communications device by a control signal established into a present frequency band, which is not substantially affected by the disturbance wave signal (col. 3 lines 3-25 and col. 9 line 23 through col. 17 line 38). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Carlson in having the wireless communication device continuing the communication connection with another wireless communication device by the control signal, wherein the communication device comprises the communication continuing means for continuing the communication connection with said another wireless communication device by said control signal established into a present frequency band which is not substantially affected by said disturbance wave signal,

as per teaching of Mansfield, because it improves RF interference characteristics in the RF communications system.

Regarding claim 2, Carlson discloses the disturbance wave periodicity detecting means comprising a frequency divided circuit for gradually increasing a frequency dividing ration with respect to an input of clock signal, i.e., a master clock signal, of a predetermined frequency and a period determination circuit for determining the period of the disturbance wave by comparing the RSSI signal extracted by the RSSI extracting means with a frequency-divided signal form said frequency dividing circuit (col. 3 line 62 through col. 4 line 11).

Regarding claim 3, Mansfield discloses the communication continuing means for shifting the transmission frequency of said control signal to keep the communication connection established into a present frequency band, which is not substantially affected by said disturbance wave signal and to secure the continuation of the communication connection with said another wireless communication device when the radiation period of the disturbance wave signal is detected by the disturbance periodicity detecting means (col. 12 line 51 through col. 15 line 50).

Regarding claim 4, Mansfield teaches transmission means for notifying a communication partner about the presence and period of said disturbance wave signal, the communication partner unable to detect the presence of the disturbance wave signal when the radiation period of said disturbance wave signal is detected by said disturbance wave periodicity detecting means (col. 9 line 51 through col. 10 line 31).

Regarding claims 7-8, the limitations of the claims are rejected as the same reasons set forth in claim 4.

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Regarding claim 12, the limitations of the claim are rejected as the same reasons set forth in claim 3.

6. Claims 5-6 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carlson (US PAT. 6,374,082) in view of Mansfield (US PAT. 6,704,346) as applied in claims above, and further in view of Callaway, Jr. (US PAT. 6,711,380 hereinafter Callaway).

Regarding claims 5-6, the combination of Carlson and Mansfield differs from the claimed invention in not specifically teaching power control means for controlling for power depending on the radiation period of the disturbance wave signal detected by said disturbance wave periodicity detecting means, wherein said power control means is configured to determine whether said data transmission/reception with said another wireless communication device can be performed when the radiation period of said disturbance wave signal is detected by said disturbance wave periodicity detecting means, and to discontinue the power control when said data transmission/reception cannot be performed. However, Callaway teaches a method of reducing interference effects caused by microwave sources comprising control means for controlling the power depending on a radiation period of the disturbance wave, wherein the control means is configured to provide power to a communication device only during quiet half cycle (col. 5 line 56 through col. 5 line 42). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the combination of Carlson and Mansfield in having power control means for controlling for power depending on the radiation period of the disturbance wave signal detected by said disturbance wave periodicity detecting means, wherein said power control means is configured to determine whether said data

transmission/reception with said another wireless communication device can be performed when the radiation period of said disturbance wave signal is detected by said disturbance wave periodicity detecting means, and to discontinue the power control when said data transmission/reception cannot be performed, as per teaching of Callaway, in order to reduce interference effects caused by microwave sources.

Regarding claims 9-11, the limitations of the claims are rejected as the same reasons set forth in claims 5-6.

Response to Arguments

7. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this

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final action.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to George Eng whose telephone number is (571) 272-7495. The

examiner can normally be reached on Tue-Fri 7:30 AM-6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Curtis A. Kuntz can be reached on (571) 272-7499. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George Eng

Primary Examiner

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Transformer-Type

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